

Qualco Energy Bio-Gas Project



Werkhoven Dairy

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NW Chinook Recovery

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Daryl Williams
President

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Board Member

<http://www.Qualco-Energy.org>

Introduction

- ⌘ Description of Project
- ⌘ How we Started (2001)
 - ☑ The Idea
 - ☑ Building our Relationships
 - ☑ Forming a Partnership
 - ☑ Jointly Lobbying for Federal and State Support
- ⌘ Forming Qualco Energy as a three-Way Partnership
- ⌘ Qualco's Mission

Project Description

⌘ Sewage Treatment for Cow Manure

- ☒ Collect Cow Manure from Dairy
- ☒ Collect Ag. Waste and Pre-Consumer food Waste
- ☒ Pump into Anaerobic Digester
- ☒ Capture Methane Gas
- ☒ Burn Gas to Produce Electricity
- ☒ Remove Solids from Digestate for Composting
- ☒ Return Digestate & Compost to Farms

How we Started The Idea



- ⌘ A Mutual Friend asked for a meeting between the Tulalip Tribes Chairman, NW Chinook Recovery ED, and a Farmer to talk about how we could work out differences and potentially work together.

- ⌘ After the first meeting they invited a few more people to participate and look at the feasibility of building a Dairy Digester to:
 - ⊞ Help improve Water Quality in the adjacent Streams and Rivers,
 - ⊞ Improve Economics for the Dairies, and
 - ⊞ Generate Renewable Energy

Building our Relationships

⌘ Sharing Long-Term Vision

- ☑ Maintaining a Healthy Environment
- ☑ Farm Sustainability

⌘ Sharing Resources and Expertise

⌘ Developing Trust

- ☑ Regular Meetings
- ☑ Learning About Each Others Interests and Needs
- ☑ Sharing Responsibilities
- ☑ Traveling Together
- ☑ Promising to Support Each Other and Following Through

Forming a Partnership

- ⌘ Formed a Partnership to Move Forward with Funding Requests for Construction and Land Acquisition/

- ⌘ Partnership Included:
 - ☑ Farmers,
 - ☑ Northwest Chinook Recovery, and
 - ☑ Tulalip Tribes

Jointly Lobbying for Federal and State Support



⌘ The Partnership Travelled Together to D.C. to Lobby for Funding

- ☒ Met with local Congressional Delegation
- ☒ Met with Agency Staff to Ask How They Could Help
 - ☒ DOE – Feasibility Grant
 - ☒ USDA Rural Development – Construction Grant
 - ☒ IRS – Clean Renewable Energy Bonds
- ☒ Met with State Legislature to Ask the State to Transfer Title of the Department of Correction Honor Farm to Tulalip

Forming Qualco Energy as a Three-Way Partnership



- ⌘ As we Started Construction, We all Decided That We Wanted to Maintain the Partnership. (2008)
- ⌘ Although Tulalip Owns the Property and the Equipment for the Project, We Decided to Form Qualco Energy as a Management Company
- ⌘ Qualco is a Non-Profit Corporation Comprised of:
 - ⌘ Northwest Chinook Recovery,
 - ⌘ Sno/Sky Agricultural Alliance (first 10 Years)/ Werkhoven Dairy, and
 - ⌘ Tulalip Tribes.
- ⌘ Each Organization has 2 Board Members (Consensus Decision Making)

Qualco's Mission



- ⌘ To Develop and Manage the Biogas Facility.
- ⌘ To Support Salmon Recovery Projects.
- ⌘ To Support Sustainable Agricultural Demonstration Projects.

Questions?

<http://www.Qualco-Energy.org>